



**DECLARATION AND POWER
OF ATTORNEY FOR UTILITY
OR DESIGN**

PATENT APPLICATION

☐ Declaration ☒ Declaration
Submitted with Submitted after Initial
Initial Filing Filing (surcharge
37 CFR 1.16(e) required)

Attorney Docket No. **SNS-006**

First Named Inventor Shih et al.

COMPLETE IF KNOWN

Application Serial Number 09/340,875

Filing Date June 28, 1999

Group Art Unit 2763

Examiner Name Not yet assigned.

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SYSTEMS AND METHODS FOR INTERACTING WITH VIRTUAL OBJECTS IN A
HAPTIC VIRTUAL REALITY ENVIRONMENT**

(Title of the Invention)

the specification of which

☐ is attached hereto
OR

☒ was filed on **June 28, 1999** as United States Application Serial Number or PCT International
(MM/DD/YYYY)

Application Number **09/340,875** and was amended on (MM/DD/YYYY) (if applicable).

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| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed | Certified Copy Attached? | |
|--|---------|-------------------------------------|--------------------------|------------------------------|-----------------------------|
| | | | <input type="checkbox"/> | YES <input type="checkbox"/> | NO <input type="checkbox"/> |
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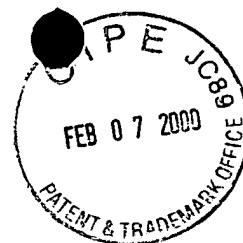
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Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09/340,875

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Direct all correspondence to:

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Testa, Hurwitz & Thibault, LLP
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125 High Street
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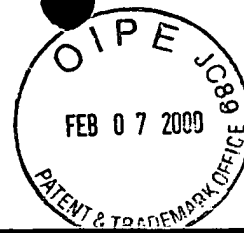
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| | | | | | | | | | |
|---|--|---|--|-------|--|------------------------|--|---------|--|
| Name of Sole or First Inventor: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | | | | | | |
| Given Name (first and middle [if any]) | | | | | | Family Name or Surname | | | |
| Loren | | | | | | Shih | | | |
| Inventor's Signature | | | | | | Date | | 1/13/00 | |
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| | | | | | | 02140 | | Country | |
| | | | | | | | | USA | |
| <input checked="" type="checkbox"/> Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) attached hereto. | | | | | | | | | |
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| Given Name (first and middle [if any]) | | | | | | Family Name or Surname | | | |
| Walter A. | | | | | | Aviles | | | |
| Inventor's Signature | | | | | | Date | | | |
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| Given Name (first and middle [if any]) | | | | | | Family Name or Surname | | | |
| Thomas H. | | | | | | Massie | | | |
| Inventor's Signature | | | | | | Date | | 1/11/00 | |
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Page 4 of 4



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| DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION | ADDITIONAL INVENTOR(S) Supplemental Sheet |
|---|--|

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| Christopher M. | | | | | | Tarr | | | |
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450JSS7268/10.837275-1

FEB 07 2000

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Filing (surcharge
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Attorney Docket No. **SNS-006**

First Named Inventor **Shih et al.**

COMPLETE IF KNOWN

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Filing Date **June 28, 1999**

Group Art Unit **2763**

Examiner Name **Not yet assigned.**

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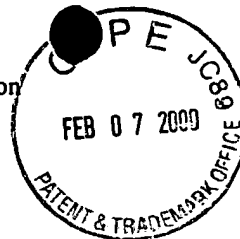
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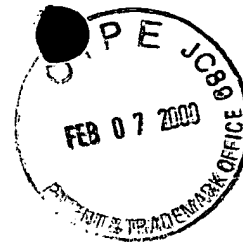
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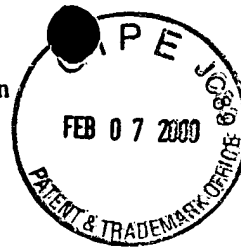
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Attorney Docket No. SNS-006

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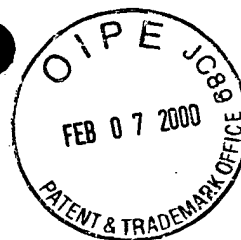
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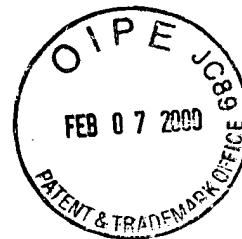
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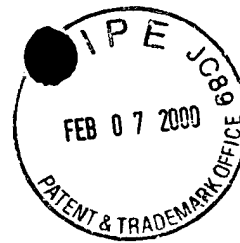
Serial No.: 09/340,875

Page 3 of 4



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| | | | | | | | | | |
|---|-------------------------|---|-------|----|-----|------------------------|---------|-----|--|
| Name of Sole or First Inventor: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | | | | | | |
| Given Name (first and middle [if any]) | | | | | | Family Name or Surname | | | |
| Loren | | | | | | Shih | | | |
| Inventor's Signature | | | | | | Date | | | |
| Street Address | 20 Pemberton Street | | | | | Citizenship | USA | | |
| | City | Cambridge | State | MA | Zip | 02140 | Country | USA | |
| Post Office Address | 20 Pemberton Street | | | | | | | | |
| | City | Cambridge | State | MA | Zip | 02140 | Country | USA | |
| <input checked="" type="checkbox"/> Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) attached hereto. | | | | | | | | | |
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | | | | | | |
| Given Name (first and middle [if any]) | | | | | | Family Name or Surname | | | |
| Walter A. | | | | | | Aviles | | | |
| Inventor's Signature | | | | | | Date | | | |
| Street Address | 809 Moana Drive | | | | | Citizenship | USA | | |
| | City | San Diego | State | CA | Zip | 92106 | Country | USA | |
| Post Office Address | 809 Moana Drive | | | | | | | | |
| | City | San Diego | State | CA | Zip | 92106 | Country | USA | |
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | | | | | | |
| Given Name (first and middle [if any]) | | | | | | Family Name or Surname | | | |
| Thomas H. | | | | | | Massie | | | |
| Inventor's Signature | <i>Thomas H. Massie</i> | | | | | Date | 1/11/00 | | |
| Street Address | 55 Mammoth Road | | | | | Citizenship | USA | | |
| | City | Windham | State | NH | Zip | 03087 | Country | USA | |
| Post Office Address | 55 Mammoth Road | | | | | | | | |
| | City | Windham | State | NH | Zip | 03087 | Country | USA | |

**DECLARATION AND
POWER OF ATTORNEY FOR UTILITY
OR DESIGN PATENT APPLICATION****ADDITIONAL INVENTOR(S)
Supplemental Sheet**

| | | | | | | | | |
|---|------------------|---|--------------|-------------------------------|------------|--------------------|----------------|-----|
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | | | | | |
| Given Name (first and middle [if any]) | | | | Family Name or Surname | | | | |
| Christopher M. | | | | Tarr | | | | |
| Inventor's Signature | | | | | | Date | | |
| Street Address | 20 Pemberton St. | | | | | Citizenship | USA | |
| | City | Cambridge | State | MA | Zip | 02140 | Country | USA |
| Post Office Address | 20 Pemberton St. | | | | | | | |
| | City | Cambridge | State | MA | Zip | 02140 | Country | USA |

DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN

PATENT APPLICATION

☐ Declaration ☒ Declaration
Submitted with Submitted after Initial
Initial Filing Filing (surcharge
37 CFR 1.16(e) required)

Attorney Docket No.

SNS-006

First Named Inventor

Shih et al.

COMPLETE IF KNOWN

Application Serial Number

09/340,875

Filing Date

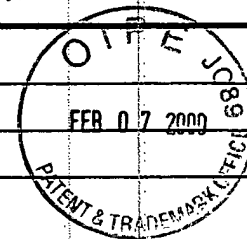
June 28, 1999

Group Art Unit

2763

Examiner Name

Not yet assigned.



As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SYSTEMS AND METHODS FOR INTERACTING WITH VIRTUAL OBJECTS IN A
HAPTIC VIRTUAL REALITY ENVIRONMENT

(Title of the Invention)

the specification of which

☐ is attached hereto
OR

☒ was filed on
(MM/DD/YYYY)

June 28, 1999

as United States Application Serial Number or PCT International

Application Number

09/340,875

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

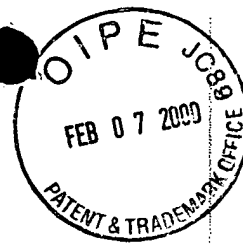
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed | Certified Copy Attached? | |
|--|---------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| | | | | YES | NO |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

| Application Serial Number(s) | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto. |
|------------------------------|--------------------------|---|
| 60/093,304 | 7/17/98 | |



DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

| U.S. Parent Application or PCT Parent Serial Number | Parent Filing Date (MM/DD/YYYY) | Parent Patent Number (if applicable) |
|--|------------------------------------|---|
| | | |

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number

OR

☒ Registered practitioner(s) name/registration number listed below

Place Customer
Number Bar Code
Label Here

| Name | Registration Number | Name | Registration Number |
|------------------------|------------------------|-----------------------|------------------------|
| Steven M. Bauer | 31,481 | Kurt W. Lockwood | 40,704 |
| Isabelle A.S. Blundell | 43,321 | Marianne McLaughlin | 42,870 |
| Maureen A. Bresnahan | P-44,559 | Thomas C. Meyers | 36,989 |
| Michael H. Brodowski | 41,640 | Joseph B. Milstein | 42,897 |
| Tara C. Cacciabauda | 40,935 | Ronda P. Moore | 44,244 |
| Jennifer A. Camacho | 43,526 | Edmund R. Pitcher | 27,829 |
| Joseph A. Capraro, Jr. | 36,471 | Dianne M. Rees | P-45,281 |
| John J. Cotter | 38,116 | Kurt Rauschenbach | 40,137 |
| Jennifer L. Dupre | 41,722 | Michael A. Rodriguez | 41,274 |
| John V. Forcier | 42,545 | Michael J. Schmelzer | 43,093 |
| Michael Giannetta | 42,574 | J. Scott Southworth | 39,382 |
| Duncan A. Greenhalgh | 38,678 | Christopher W. Stamos | 35,370 |
| William G. Guerin | 41,047 | Robert J. Tosti | 35,393 |
| Ira Heffan | 41,059 | Thomas A. Turano | 35,722 |
| Danielle L. Herritt | 43,670 | Michael J. Twomey | 38,349 |
| Elizabeth E. Kim | 43,334 | Christine C. Vito | 39,061 |
| Mi Kim | P-44,830 | Patrick R.H. Waller | 41,418 |
| Douglas J. Kline | 35,574 | | |
| John D. Lanza | 40,060 | | |
| Timothy P. Linkkila | 40,702 | | |

☐ Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.

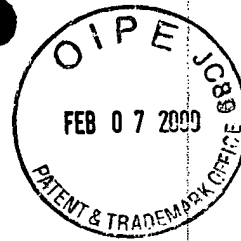
Direct all correspondence to:

Patent Administrator
 Testa, Hurwitz & Thibault, LLP
 High Street Tower
 125 High Street
 Boston, MA 02110
 Tel. No.: (617) 248-7000
 Fax No.: (617) 248-7100

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09/340,875

Page 3 of 4



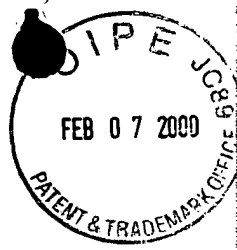
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| | | | | | | | | | |
|---|-------------------------|---|-------|----|------------------------|-------------|---------|-----|--|
| Name of Sole or First Inventor: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | | | | | | |
| Given Name (first and middle [if any]) | | | | | Family Name or Surname | | | | |
| Loren | | | | | Shih | | | | |
| Inventor's Signature | | | | | | Date | | | |
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| <input checked="" type="checkbox"/> Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) attached hereto. | | | | | | | | | |
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | | | | | | |
| Given Name (first and middle [if any]) | | | | | Family Name or Surname | | | | |
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| Inventor's Signature | | | | | | Date | | | |
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| Given Name (first and middle [if any]) | | | | | Family Name or Surname | | | | |
| Thomas H. | | | | | Massie | | | | |
| Inventor's Signature | <i>Thomas H. Massie</i> | | | | | Date | 1/11/00 | | |
| Street Address | 55 Mammoth Road | | | | | Citizenship | USA | | |
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Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09/340,875

Page 4 of 4



| | |
|---|--|
| DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION | ADDITIONAL INVENTOR(S) Supplemental Sheet |
|---|--|

| | | | | | | | |
|--|------------------------------------|---|-------|----|------------------------|-----------|---------|
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | | | | |
| Given Name (first and middle (if any)) | | | | | Family Name or Surname | | |
| Christopher M. | | | | | Tarr | | |
| Inventor's Signature | <i>Christopher M Tarr</i> | | | | Date | 1/17/2000 | |
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| Post Office Address | 20 Pemberton St. 2103 Columbia Dr. | | | | | | |
| | City | Cambridge | State | MA | Zip | 02140 | Country |
| | | Richardson | | TX | | 75081 | USA |

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